Integrated TDM Broadcast Audio Routing Frame

Thomson VM3000 Jupiter Compatible

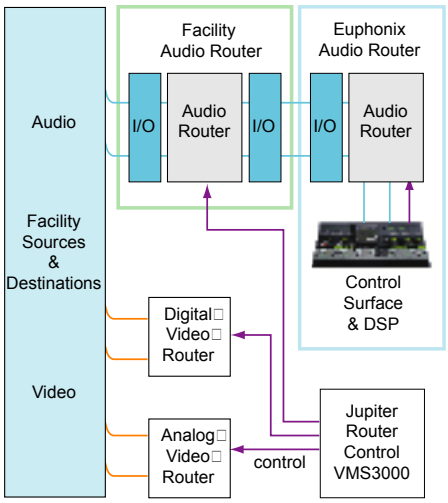
Finally a solution that integrates the digital audio console router frame and the Euphonix StudioHub (SH612) with the main facility router. This eliminates the need for two routing and I/O systems in certain broadcast applications resulting in considerable cost savings and increased efficiency of operation.

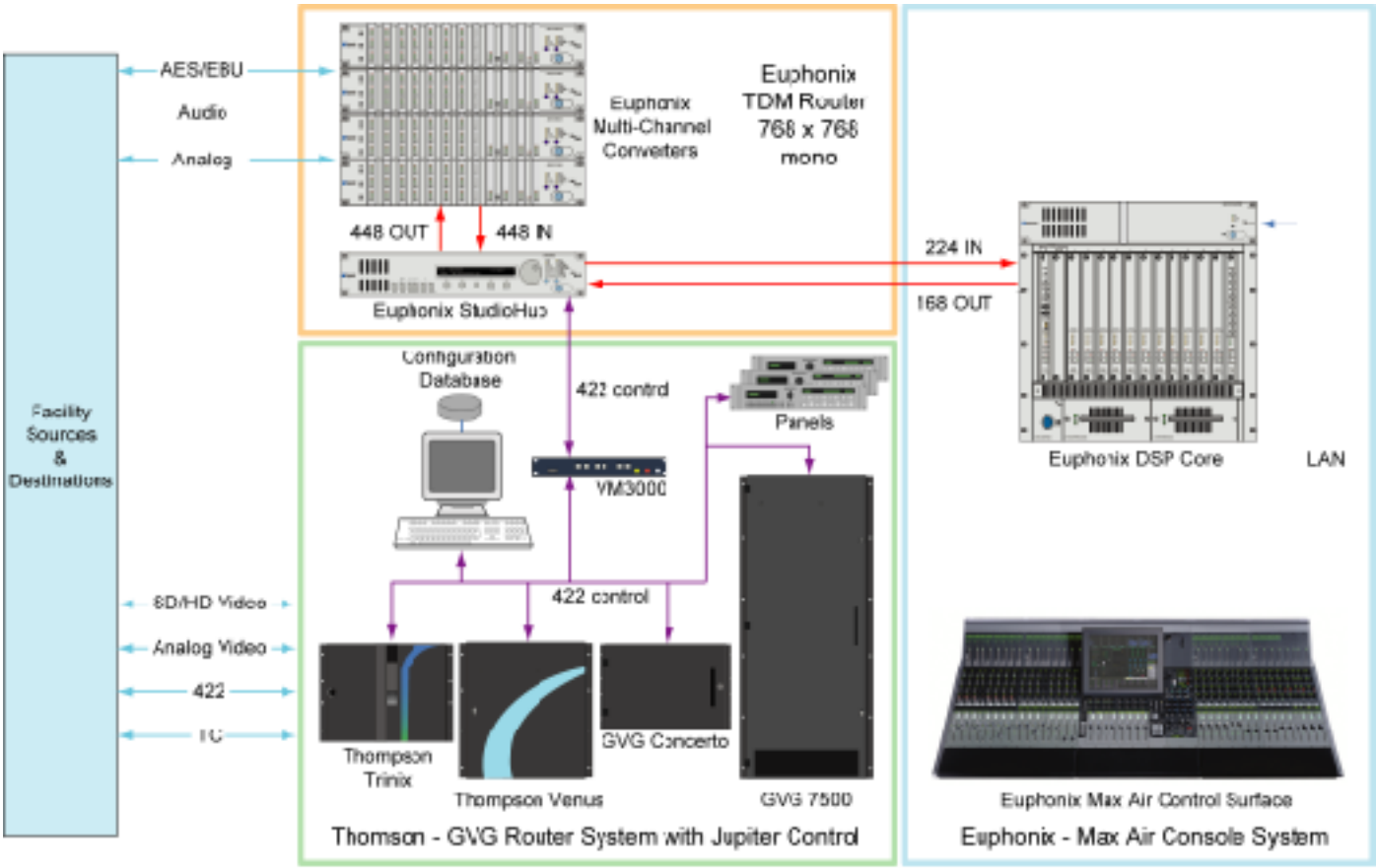
- Huge cost savings – console I/O and SH612 becomes an audio level to the router. Customers buy I/O once with console.
- Compact 2U router, reduced I/O devices – saves weight and rack space.
- Large capacity router – 768x768 versus traditional frame limit of 256x256.
- Euphonix StudioHub router is a TDM router. Digital AES/EBU pairs are treated as two signals that can be separated unlike many digital routing frames which do not allow the separate processing of an AES/EBU pair.
- Digital I/O available on 75 ohm BNC (AES3id) or 110 ohm XLR (AES3).
- Connections are made directly to I/O unit. No expensive 'breakout panels'.
- Robust and reliable – StudioHub has redundant PSU and AC mains.
- Full integration with Euphonix audio mixers. Audio operator has access to sources and destinations as well as other router users. Console mix busses (mix, group, aux, prefade, etc.) are available as sources on other router panels.

Typical Broadcast Audio Routing System

(right) Console audio router and facility audio router duplicating functionality.

(below) Single audio router and I/O – Jupiter control connects directly to the Euphonix StudioHub router.





StudioHub 12 x 12 MADI Router

(768 x 768 Time Slots)

The StudioHub router, employed with the Euphonix System 5 or Max Air digital audio mixing systems, enables the user to substantially reduce the amount of audio I/O that has traditionally been required for remote trucks, production control rooms and post production rooms. Savings of over $30,000 per installation can be achieved because the StudioHub has been designed to communicate with industry standard routing control systems, such as the Thomson VM3000 Jupiter control system. This ELIMINATES the need for two routing systems and two I/O systems while satisfying the demands of redundancy for on-air operation.

Get ready for a more streamlined and efficient way of utilizing your audio control room. The production monitors, I/O feeds, tape machines, console mix, aux and group busses are all available on the router and to the console simultaneously! If a tape operator needs to get 'mono fx' to Ch 1 of the replay machine, they simply dial it up on the router panel. It is no longer necessary to create the buss, assign it to a console output, then patch that output into the router, then assign the router source to the tape op destination. This greatly simplifies the way audio is routed throughout the facility.

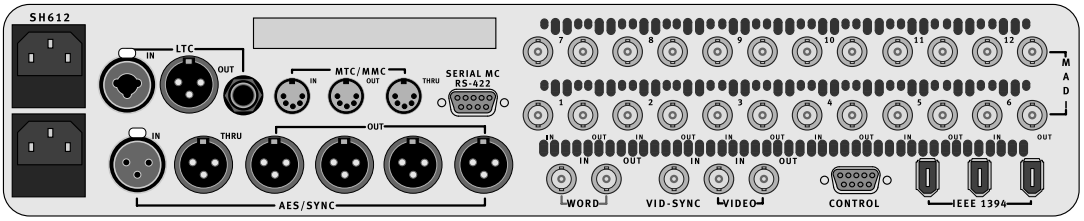
In the event of an unforeseen catastrophe, there are complete 'real world' failsafe redundancy procedures that will enable you to 'patch' around problems just like the old days.

Since the SH612 is switching routing signals in a common format, MADI, all I/O specific formats are converted to MADI through the I/O converter units. These include analog and all digital formats with sample rate conversion if necessary. If a source is an analog signal, and the destination is a digital signal, the SH612 can make that switch with no problems to the operator.

StudioHub SH612

StudioHub Rear Connections

(dual power input broadcast version shown)



Converters

MADI - Analog - AES/EBU - SDIF-2 - ADAT - ProTools - TDIF - ProDigi

Multi-Channel Converters

Euphonix makes a range of 28-channel high quality professional analog and AES/EBU converters, with MADI, for simple connectivity to the StudioHub router. Sample rates include 44.1, 48, 88.2 and 96 kHz with 16, 20 or 24-bit operation. AES/EBU connections are available as 110 ohm XLR or 75 ohm coax.

MA703 MADI to 28 Analog

56-Channel Bi-Directional Digital Format Converter with SRC

Connect multiple format digital audio devices together to create the highest quality conversion available. The following formats can be converted to and from MADI; SDIF-2 – ProDigi – TDIF – ADAT Optical – AES/EBU – Pro Tools®. Any supported format can be converted to another with the highest quality 24-bit sample rate conversion (SRC) in real-time, on all channels that require it. The units carry up to 56 channels of audio in both directions.

FC727 Digital Format Converter

www.euphonix.com

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